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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,109	09/15/2003	Youcef M. Rustum	03551.0136	1832
26712 HODGSON RU	7590 03/27/200 ISS LLP	EXAMINER		
THE GUARANTY BUILDING			SIMMONS, CHRIS E	
140 PEARL STREET SUITE 100			ART UNIT	PAPER NUMBER
	BUFFALO, NY 14202-4040			
			MAIL DATE	DELIVERY MODE
			03/27/2008	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/663,109	RUSTUM ET AL.				
Office Action Summary	Examiner	Art Unit				
•	CHRIS E. SIMMONS	1612				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinwill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>20 December 2007</u> .						
·=	<i>,</i> —					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-4,7-11 and 14</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4,7-11 and 14</u> is/are rejected. 7)□ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
oss the attached detailed office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/21/2007.	5)  Notice of Informal F 6)  Other:	ratent Application				

## **DETAILED ACTION**

Unless maintained infra, all previous rejections are withdrawn.

## Scope of Enablement Rejection

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-4, 7-11, and 14 were rejected under 35 USC 112, first paragraph because the specification, while being enabled for methods for reducing hair loss in patients receiving 100 mg/kg to 150 mg/kg cyclophosphamide and 0.75 mg/kg methylselenocysteine, wherein the latter is administered orally daily for 21 days with the first dose being given at 14 days before cyclophosphamide treatment, does not reasonably provide enablement for treatment regimes using therapeutic protocols outside those specific parameters. The specification does not enable any person skilled in the art to which it pertains to, or with which it is most nearly connected, to use the invention commensurate in scope with these claims.

Applicant argues that the skilled artisan would know that alopecia is a predictable side effect of cyclophosphamide administration. Applicant further submits a declaration

under 37 CRF § 1.132 as support showing alopecia is a side effect of cyclophosphamide treatment.

Applicant's arguments have been fully considered and have been found persuasive insofar as alopecia being a predictable side effect of cyclophosphamide administration. However, with regards to enablement for reducing alopecia outside specific parameters, Applicant's arguments have not been found persuasive because the ability of selenium to reduce alopecia associated with cyclophosphamide administration is known to be particularly unpredictable as outlined in the prior office action and *infra*.

Applicant further argues that the Seija reference describes a clinical trial in which patients receiving combination therapy of cisplatin and cyclophosphamide and therefore the reference does not evaluate reducing alopecia caused by cyclophosphamide by using selenium.

Applicant has noted that hair loss is a predictable side effect of cyclophosphamide. Accordingly, a subject being administered cyclophosphamide, as is the case in the Seija reference, would then predictably have the side effect, alopecia. The reference discloses that <u>no influence</u> on hair loss was noted. If selenium had an effect on cyclophosphamide-induced hair loss, then there would at least be <u>some</u> influence on hair loss; in accordance, the selenium influence in reducing alopecia is not enabled outside of certain parameters disclosed in the instant specification.

Applicant submitted declaration (item 4) and the Fakih reference as support for the claim that undue experimentation would not be required for reducing alopecia

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caused by cyclophosphamide administration by administering selenium containing

compounds.

The Fakih reference however, is evaluating selenium containing compounds'

protective plasma levels for irinotecan-induced toxicities. The Fakih reference further

concluded that no major protection was established.

Indefiniteness Rejection

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-4, 7-11, and 14 were rejected under 35 U.S.C. 112, second paragraph,

as being indefinite for failing to particularly point out and distinctly claim the subject

matter which applicant regards as the invention.

This rejection is maintained.

Applicant's explanation has not been found to be persuasive because as the

claim is currently recited, it remains unclear whether the therapeutically effective dose is

effective for reducing alopecia or effective for treating cancer.

No claims are allowed.

Conclusion

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The following is pertinent art not relied upon for this office action:

USP 5,262,149

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRIS E. SIMMONS whose telephone number is (571)272-9065. The examiner can normally be reached on Monday - Friday from 7:30 - 5:00 PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frederick Krass can be reached on (571) 272-0580. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chris E Simmons/ Examiner, Art Unit 1612

/Frederick Krass/
Supervisory Patent Examiner, Art Unit 1612